IN THE CLAIMS

Please amend the claims as follows:

- 1.-10. (Canceled)
- 11. (Currently Amended) A method for control of operation of a nitrogen oxides trap for an internal combustion engine running on a lean mixture, wherein purging of the nitrogen oxides trap is commanded periodically, and a first oxygen sensor is disposed in an exhaust pipe downstream from the nitrogen oxides trap, the method comprising:

observing evolution of a meaningful signal representative of a signal delivered by the first oxygen sensor; and

using an increase of the meaningful signal from a first plateau of substantially constant level, reached following a variation in the meaningful signal subsequent to a changeover of the engine from running on a lean mixture to running on a rich mixture, to a second plateau of substantially constant level as an indicator to command an end of purging.

- 12. (Previously Presented) A method according to claim 11, wherein a second oxygen sensor disposed upstream from the nitrogen oxides trap is additionally used to deliver a reference signal, relative to which the evolution of the signal delivered by the first oxygen sensor is compared to deliver the meaningful signal.
- 13. (Previously Presented) A method according to claim 11, wherein the increase of the meaningful signal is detected by applying filtering of a first derivative of the meaningful signal and by comparing the filtered first derivative with a predetermined threshold.
- 14. (Previously Presented) A method according to claim 12, wherein the increase of the meaningful signal is detected by applying filtering of a first derivative of the meaningful

signal and by comparing the filtered first derivative with a predetermined threshold.

- 15. (Previously Presented) A method according to claim 11, wherein the increase of the meaningful signal is detected by applying filtering of a second derivative of the meaningful signal and observing passage of the filtered second derivative through zero in decreasing threshold.
- 16. (Previously Presented) A method according to claim 12, wherein the increase of the meaningful signal is detected by applying filtering of a second derivative of the meaningful signal and observing passage of the filtered second derivative through zero in decreasing threshold.
- 17. (Previously Presented) A method according to claim 11, wherein the increase of the meaningful signal is detected by taking a difference between an instantaneous value of the meaningful signal and a sliding mean of the meaningful signal, and by comparing the difference with a threshold.
- 18. (Previously Presented) A method according to claim 12, wherein the increase of the meaningful signal is detected by taking a difference between an instantaneous value of the meaningful signal and a sliding mean of the meaningful signal, and by comparing the difference with a threshold.
- 19. (Previously Presented) A method according to claim 11, wherein the increase of the meaningful signal, for a lambda sensor, is detected by comparing a voltage value delivered by the first oxygen sensor with a predetermined threshold.
- 20. (Previously Presented) A method according to claim 12, wherein the increase of the meaningful signal, for a lambda sensor, is detected by comparing a voltage value

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delivered by the first oxygen sensor with a predetermined threshold.

- 21. (Previously Presented) A method according to claim 11, wherein the first oxygen sensor is chosen from among sensors of a sensor of lambda type, proportional oxygen sensor, nitrogen oxides detector, in which the oxygen-concentration measuring function is used.
- 22. (Previously Presented) A method according to claim 12, wherein the first oxygen sensor is chosen from among sensors of a sensor of lambda type, proportional oxygen sensor, nitrogen oxides detector, in which the oxygen-concentration measuring function is used.
- 23. (Previously Presented) A method according to claim 22, wherein the first and second oxygen sensors are of different types.
- 24. (Currently Amended) A device for control of an operation of a nitrogen oxides trap for an internal combustion engine running on a lean mixture, for use of a method for control of operation of the nitrogen oxides trap, the engine being equipped with an exhaust line containing a nitrogen oxides trap, the device comprising:

a first oxygen sensor disposed on an exhaust line downstream from the nitrogen oxides trap; and

calculating means for determining an increase of a meaningful signal representative of the signal delivered by the first oxygen sensor from a first plateau of substantially constant level, reached following a variation in the meaningful signal at initiation of a purging operation, to a second plateau of substantially constant level and using the increase as an indicator to command an end of purging.

25. (Previously Presented) A device according to claim 24, further comprising a second oxygen sensor disposed upstream from the nitrogen oxides trap and connected to the

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calculating means to deliver a reference signal thereto.